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NOTICE OF ALLOWANCE AND FEE(S) DUE

26530

7590

03/24/2009

LADAS & PARRY LLP 224 SOUTH MICHIGAN AVENUE SUITE 1600 CHICAGO, IL 60604

EXAMINER					
KONG, SZE-HON					
ART UNIT PAPER NUMBER					
2661					

DATE MAILED: 03/24/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/536,601	09/28/2005	Byoung-Sun Lee	CU-4232 WWP	2257

TITLE OF INVENTION: LOW EARTH ORBIT SATELLITE COMMAND PLANNING DEVICE AND METHOD, AND LOW EARTH ORBIT SATELLITE CONTROL SYSTEM INCLUDING THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	06/24/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

appropriate. All further indicated unless correct maintenance fee notifica	ed below or directed oth	ng the Patent, advance on the herwise in Block 1, by (orders and notification (a) specifying a new c	of n	naintenance tees w pondence address;	/ill be and/or	mailed to the current (b) indicating a sepa	corres rate "I	pondence address as FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Fee(s) Transmittal. The ers. Each additiona	is certif I paper	can only be used for icate cannot be used for such as an assignment ling or transmission.	or any	other accompanying
LADAS & PARRY LLP 224 SOUTH MICHIGAN AVENUE SUITE 1600				State	reby certify that the es Postal Service versed to the Mail	is Fee(vith suf Stop	of Mailing or Transı s) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the da	g depos st class above.	sited with the United mail in an envelope or being facsimile
CHICAGO, IL (50604								(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		АТТО	RNEY DOCKET NO.	CON	NFIRMATION NO.
	09/28/2005 ON: LOW EARTH OR L SYSTEM INCLUDING	BIT SATELLITE COM G THE SAME	Byoung-Sun Lee IMAND PLANNING		VICE AND MET		CU-4232 WWP AND LOW EARTH	I ORE	2257 BIT
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE I	DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	\top	DATE DUE
nonprovisional	YES	\$755	\$300	СВ	\$0	31111	\$1055		06/24/2009
EXAMINER ART UNIT CLASS-SUBCLASS		7			00/21/2009				
KONG, S	SZE-HON	3661	701-013000						
"Fee Address" inc PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Un	AND RESIDENCE DATA less an assignee is ident th in 37 CFR 3.11. Com	" Indication form	data will appear on t	single or a t attor ll be or typ the pa	vely, e firm (having as a gent) and the nam meys or agents. If printed. e) atent. If an assign assignment.	memb es of u no nam	er a 2	ocume	nt has been filed for
Please check the appropr	riate assignee category or	categories (will not be p	orinted on the patent):		Individual 🗖 Co	orporati	on or other private gro	oup ent	ity 🗖 Government
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a. Applicant claim	ntus (from status indicated as SMALL ENTITY statu	us. See 37 CFR 1.27.					TITY status. See 37 CF		
interest as shown by the	nd Publication Fee (if requestroords of the United Sta	uired) will not be accepte tes Patent and Trademark	ea from anyone other the k Office.	nan ti	ne applicant; a regi	stered a	morney or agent; or th	e assig	gnee or other party in
Authorized Signature	·				Date				
Typed or printed name					Registration N	To			
an application Confider	ntiality is governed by 35 dapplication form to the ions for reducing this but Virginia 22313-1450. DC	CFR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the D NOT SEND FEES OR	1.14 This collection i	ie eet	imated to take 12 i	minutes	to complete includin	o oath	ering preparing and

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APPLICATION NO.	FILING DATE	FILING DATE FIRST NAMED INVENTOR		CONFIRMATION NO.	
10/536,601	09/28/2005	Byoung-Sun Lee	CU-4232 WWP	2257	
26530 7:	590 03/24/2009		EXAM	INER	
LADAS & PAR	RY LLP		KONG, S	ZE-HON	
224 SOUTH MICE	HIGAN AVENUE		ART UNIT	PAPER NUMBER	
SUITE 1600 CHICAGO, IL 60604			3661 DATE MAILED: 03/24/200	9	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 443 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 443 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)		
	10/536,601	LEE ET AL.		
Notice of Allowability	Examiner	Art Unit		
	SZE-HON KONG	3661		
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS		
2. The allowed claim(s) is/are <u>1-16</u> .				
3. ☑ Acknowledgment is made of a claim for foreign priority under a) ☑ All b) ☐ Some* c) ☐ None of the: 1. ☑ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	been received. been received in Application No			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements		
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give				
5. CORRECTED DRAWINGS (as "replacement sheets") mus	et be submitted.			
(a) ☐ including changes required by the Notice of Draftspers		948) attached		
1) ☐ hereto or 2) ☐ to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t				
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT				
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal P 6. ☐ Interview Summary Paper No./Mail Dat 7. ☑ Examiner's Amendn 8. ☑ Examiner's Stateme 9. ☐ Other	(PTO-413), te		
/SZE-HON KONG/ Examiner, Art Unit 3661				

Application/Control Number: 10/536,601 Page 2

Art Unit: 3661

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In claim 3, line 2, the word "for" has been deleted and the word "establishing" has been changed to --establishes--.

In claim 5, line 2, the word "for" has been deleted and the word "defining" has been changed to --defines--.

In claim 5, line 10, the word "for" has been deleted and the word "selecting" has been changed to --selects--.

In claim 5, line 11, the word "for" has been deleted and the word "editing" has been changed to --edits--.

Reasons for Allowance

2. The following is an examiner's statement of reasons for allowance:

Claims 1-16 are allowed based on the follow reason:

The limitations of having an interface for applying a mapping rule in accordance to a task name and a condition and selecting commands from a list of commands to generate a task schedule in time sequence for controlling a satellite in combination of all the limitations in the currently amended claims are neither taught nor suggested by the prior arts cited as a whole, either alone or in combination.

Art Unit: 3661

(5,506,780) Montenbruck et al. discloses an apparatus for orbit control of satellites, however, is only discussing predicting and planning maneuver, having databases for storing orbit and maneuver parameters and data and manages data automatically, monitor relative movement, distances and velocities, user interface for input and export of external orbit data in a matched format and not the limitations as currently amended above and in combination of all limitations in the claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SZE-HON KONG whose telephone number is (571)270-1503. The examiner can normally be reached on 7:30AM-5PM Mon-Fri, Alt. Fri. Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black can be reached on (571) 272-6956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 3661

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

3/10/2009

/SZE-HON KONG/ Examiner, Art Unit 3661

/Thomas G. Black/ Supervisory Patent Examiner, Art Unit 3661